

## SEQUENCE LISTING

<110> The Government of the United States of America as  
 Buchholz, Ursula  
 Collins, Peter L.  
 Murphy, Brian R.  
 Whitehead, Stephen S.  
 Krempel, Christine D.

<120> Production of Attenuated Human-Bovine Chimeric Respiratory Syncytial Virus Vaccines

<130> NIH-0377

<140> 10/030,951

<141> 2002-01-08

<160> 23

<170> PatentIn version 3.1

<210> 1  
<211> 80  
<212> DNA  
<213> Bovine respiratory syncytial virus

<400> 1  
 agttattnaa aattaaactt aaaaatggtt tatggttaca tacagatgtt ggggcaaata 60  
 caagtatgtc caaccataacc 80

<210> 2  
<211> 80  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Synthetic bovine RSV

<400> 2  
 agttattnaa aattaaactt aaaaatggtt tatgtcgaca tacagatgtt ggggcaaata 60  
 caagtatgtc caaccataacc 80

<210> 3  
<211> 70  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Synthetic human and bovine RSV

<400> 3  
 agttattnaa aattaaactt aaaaatggtt tatgtcgact ggggcaaatg caaacatgtc 60  
 caaaaacaag 70

<210> 4  
<211> 87  
<212> DNA  
<213> Human respiratory syncytial virus

<400> 4  
 agttaattaa aaatagtcat aacaatgaac taggatatca agactaacaa taacattggg 60  
 gcaaatgcaa acatgtccaa aaacaag 87

<210> 5  
<211> 62  
<212> DNA

<213> Bovine respiratory syncytial virus

<400> 5  
agttatataa aaagatatgt ataattcact aataaaaact ggggcaaata aggatggcga 60  
ca 62

<210> 6  
<211> 62  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Synthetic bovine RSV

<400> 6  
agttatataa aaagatatgc atgcttcact aataaaaact ggggcaaata aggatggcga 60  
ca 62

<210> 7  
<211> 87  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Synthetic human and bovine RSV

<400> 7  
agttacttaa aaacatatta tcacaaaagg ctttgaccaa cttaaacaga atcaaaataa 60  
actctggggc aaataacaat ggagttg 87

<210> 8  
<211> 87  
<212> DNA  
<213> Human respiratory syncytial virus

<400> 8  
agttacttaa aaacatatta tcacaaaaag ccatgaccaa cttaaacaga atcaaaataa 60  
actctggggc aaataacaat ggagttg 87

<210> 9  
<211> 87  
<212> DNA  
<213> Bovine respiratory syncytial virus

<400> 9  
ccatgttcat agttatataa aaatattata ttagtctcaa agaataaaat tatttaacaa 60  
ccaatcattc aaaaagatgg ggcaaat 87

<210> 10  
<211> 87  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Synthetic bovine RSV

<400> 10  
ccatgttcat agttatataa aaatattata ttagtctcgaa ggaataaaat cgattaacaa 60  
ccaatcattc aaaaagatgg ggcaaat 87

<210> 11

<211> 74  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Synthetic human and bovine RSV

<400> 11  
cctagtttat agttatataa aactcgagga ataaaatcga ttaacaacca atcattcaaa 60  
aagatggggc aaat 74

<210> 12  
<211> 77  
<212> DNA  
<213> Human respiratory syncytial virus

<400> 12  
cctagtttat agttatataa aacacaattg aatgccagat taacttacca tctgtaaaaa 60  
tgaaaactgg ggcaaat 77

<210> 13  
<211> 46  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Synthetic human bovine RSV

<400> 13  
agttatataa aaagatatgc atgcggggca aataacaatg gagttg 46

<210> 14  
<211> 55  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Synthetic respiratory syncytial virus

<400> 14  
ggggcaaata caagttaatt cgccggcgcc ccctctttc tttctacaga aaatg 55

<210> 15  
<211> 35  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Synthetic respiratory syncytial virus

<400> 15  
gcggccgcta aatttaactc ctttgcttag cgatg 35

<210> 16  
<211> 30  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Synthetic respiratory syncytial virus

<400> 16  
cacaatgggg caaataagct tagcggccgc 30

<210> 17

<211> 24		
<212> DNA		
<213> Artificial Sequence		
<220>		
<223> Synthetic respiratory syncytial virus		
<400> 17		
agtttagtaaa aataaaagacg cgtt		24
<210> 18		
<211> 29		
<212> DNA		
<213> Artificial Sequence		
<220>		
<223> Synthetic respiratory syncytial virus		
<400> 18		
ttatgtcgac tggggcaaat gcaaacatg		29
<210> 19		
<211> 28		
<212> DNA		
<213> Artificial Sequence		
<220>		
<223> Synthetic respiratory syncytial virus		
<400> 19		
ggggcaaaata acaatggagt tgccaatc		28
<210> 20		
<211> 29		
<212> DNA		
<213> Artificial Sequence		
<220>		
<223> Synthetic respiratory syncytial virus		
<400> 20		
tttttatata actataaaact aggaatcta		29
<210> 21		
<211> 42		
<212> DNA		
<213> Artificial Sequence		
<220>		
<223> Synthetic respiratory syncytial virus		
<400> 21		
aggaattcgc atgcggggca aataacaatg gagttgccaa tc		42
<210> 22		
<211> 43		
<212> DNA		
<213> Artificial Sequence		
<220>		
<223> Synthetic respiratory syncytial virus		
<400> 22		
aggaattctc gagttttat ataactataa actaggaatc tac		43
<210> 23		
<211> 64		

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic respiratory syncytial virus

<400> 23

ttaaacttaa aaatggtta tgtcgaggaa taaaatcgat taacaaccaa tcattcaaaa 60

agat

64